			UNIT H	EATER SCH	EDULE			
UNIT NO.	CAPACITY (BTU/HR)	TYPE	VERTICAL THROW (FT)	HORIZONTAL SPREAD (FT)	ENT.H <sub>2</sub> 0	LVG. H <sub>2</sub> O	GРM	REMARKS
UH-1	40,000	HORIZONTAL HOT-WATER			200°F	180°F	4.0	UNIT THERMOSTAT CYCLES FAN ON TO MAINTAIN SPACE TEMPERATURE
UH-2 THRU UH-7	67,000 EACH	VERTICAL HOT-WATER	22	12	200°F	180°F	6.7	COMMON SPACE SENSOR MODULATES VALVE TO MAINTAIN SPACE TEMPERATURE
UH-8 THRU UH-11	28,000 EACH	VERTICAL HOT-WATER	18	12	200°F	180°F	2.8	COMMON SPACE SENSOR CYCLES FAN ON TO MAINTAIN SPACE TEMPERATURE

## NOTES:

- 1. MOUNT BOTTOM OF VERTICAL UNITS AT INDICATED THROW HEIGHT.
- 2. CAPACITY INDICATED IS MINIMUM; UNITS WITH INDICATED THROW & SPREAD SHALL BE PROVIDED.

			FIN	NTUBE RA	ADIAT	ION SCHEE	ULE					
UNIT NO.	CAPACITY (BTU/HR)	ENT. H <sub>2</sub> 0	LVG. H <sub>2</sub> 0	ENT. AIR	GPM	NO. ELEMENTS HIGH	TYPE COVER. W/SLOPPING TOP	PE COVER. REMARKS: LOPPING TOP SEE NOTES				
FTR-1	6000	200°F	180°F	70°F	0.6	1	WALL TO WALL	1	2	3	4	5
FTR-2	6000	200°F	180°F	70°F	0.6	1	WALL TO WALL	1	2	3	4	5
FTR-3	2500	200° F	180°F	70°F	0.3	1	WALL TO END		_	3	4	5
FTR-4	2500	200°F	180°F	70°F	0.3	1	WALL TO END	1	_	3	4	5

## NOTES:

- 1. COVER TO EXTEND ENTIRE LENGTH OF WALLS.
- 2. PROVIDE (3) 2000 BTU/HR ELEMENTS, EACH LOCATED UNDER WINDOWS AS SHOWN ON THE FLOOR PLAN.
- 3. MOUNTING HEIGHT SHALL BE A MINUMUM OF 6" ABOVE FLOOR, EXCEPT WHERE ELECTRICAL OUTLETS ARE BELOW RADIATORS, PROVIDE 12" MINIMUM.
- 4. ALL VALVES, AIR VENTS AND EXPANSION JOINTS WITHIN FINISHED ROOMS SHALL BE CONTAINED WITHIN THE RADIATOR AND ACCESS PANELS PROVIDED.
- 5. NO PIPING SHALL BE EXPOSED WITHIN FINISHED ROOMS.

		EXH	HAUST FAN SCHEDU	LE
UNIT NO.	USE	CAPACITY	TYPE	REMARKS
EF-1	TOILET EXHAUST	290 CFM @ 1/2" E.S.P.	IN-LINE DIRECT DRIVEN CENTRIFUGAL	INTERLOCK W/ <u>BCU-1</u>
EF-2	VEHICLE EXHAUST	400 CFM @ 1 <sup>1</sup> / <sub>2</sub> " E.S.P.	IN-LINE BELT DRIVEN CENTRIFUGAL	SPARK-PROOF CONSTRUCTION
EF-3A	3- BAY EXHAUST	2200 CFM @ 1 <sup>1</sup> / <sub>4</sub> " E.S.P.	IN-LINE BELT DRIVEN CENTRIFUGAL	SPARK-PROOF CONSTRUCTION, INTERLOCK W/ ASSOCIATED SUPPLY FAN, <u>SF-3</u>
EF-3B	3- BAY EXHAUST	2200 CFM @ 1 <sup>1</sup> / <sub>4</sub> " E.S.P.	ROOF MOUNTED BELT DRIVEN CENTRIFUGAL	EXPLOSION-PROOF, INTERLOCK W/ ASSOCIATED SUPPLY FAN, <u>SF-3</u>
EF-4	VEHICLE EXHAUST	400 CFM @ 1 <sup>1</sup> / <sub>2</sub> " E.S.P.	IN-LINE BELT DRIVEN CENTRIFUGAL	SPARK-PROOF CONSTRUCTION
EF-5	2- BAY EXHAUST	1760 CFM @ 1 <sup>1</sup> / <sub>4</sub> " E.S.P.	ROOF MOUNTED BELT DRIVEN CENTRIFUGAL	EXPLOSION-PROOF, INTERLOCK W/ <u>HV-1</u>
EF-6	WASH BAY EXHAUST	1740 CFM @ 1" E.S.P.	IN-LINE BELT DRIVEN CENTRIFUGAL	SPARK-PROOF CONSTRUCTION, INTERLOCK W/ <u>HV-1</u>

		SUPPLY	FAN SCHEDULE	
UNIT NO.	USE	CAPACITY	TYPE	REMARKS
SF -1	MECH RM. VENTILATION	1600 CFM @ '/8" E.S.P.	WALL-MOUNTED, BELT Driven propeller Supply fan	SPACE THERMOSTAT CYCLES UNIT AT TEMPERATURES EXCEEDING 85°F
SF -2	STORAGE ROOM VENTILATION	525 CFM @ 1″ E.S.P.	IN-LINE DIRECT DRIVEN CENTRIFUGAL	INTERLOCK W/ BCU-1
SF -3	3- BAY VENTILATION	4000 CFM @ 1 <sup>1</sup> / <sub>2</sub> " E.S.P. EACH	IN-LINE, BELT DRIVEN CENTRIFUGAL	INTERLOCK WITH ASSOCIATED EXHAUST FANS <u>EF-3A</u> & <u>EF-3B</u>

		DI	FFUSER, I	REGISTER	, & GRILLE	SCHEDUL	_E	
	UNIT NO.	CFM	NECK SIZE	DUCT CONN	TYPE	USE	REMARKS: SEE NOTES	
	SD-1	55	5 ″Ø	6″Ø	ROUND	SUPPLY	2, 4	
RS	SD-2	70	6"×6"	6 ″Ø	LOUVER FACE 2-WAY THROW	SUPPLY	1, 4	
DIFFUSERS	SD-3	115	6″Ø	6″Ø	ROUND	SUPPLY	2, 4	
DIF	SD-4	150	8 "Ø	6″Ø	ROUND	SUPPLY	2, 4	
	SD-5	335	9 "×9 "	8 "Ø	LOUVER FACE 4-WAY THROW	SUPPLY	1, 4	
	JD-6	875	8 "×30 "	8"×30"	DRUM DIFFUSER	SUPPLY	2, 3, 6	
	EG-1	400	10"×10"		LOUVER FACE	EXHAUST	2, 5	
	EG-2	435	20"×10"		LOUVER FACE	EXHAUST	2, 3, 5	
40	EG-3	1740	24">	<24"	LOUVER FACE	EXHAUST	2, 5	
GRILLES	EG-4	2200	22">	<22"	LOUVER FACE	EXHAUST	2, 5	
& GF	TG-1	55	8 ">	<8 "	LOUVER FACE	TRANSFER	5	
rers	TG-2	115	12">	<8 "	LOUVER FACE	TRANSFER	5	
REGISTERS	TG-3	150	12">	<8 "	LOUVER FACE	TRANSFER	5	
Œ	RG-1		NOMINAL	24"×24"	LOUVER FACE	RETURN	1, 5	
	ER-1	20	6 "×	(6 <i>"</i>	LOUVER FACE	EXHAUST	2, 3, 5	
	ER-2	135	8 ">	<8 "	LOUVER FACE	EXHAUST	2, 3, 5	

## NOTES:

- I. PROVIDE UNIT SUITABLE FOR USE IN A 24" X 24" LAY-IN CEILING.
- 2. DUCT MOUNTED
- 3. PROVIDE UNIT WITH INTEGRAL OPPOSED-BLADE BALANCING DAMPERS.
- 4. PROVIDE UNIT WITHOUT INTEGRAL OPPOSED-BLADE BALANCING DAMPERS.
- 5. PROVIDE UNIT WITH FIXED DOUBLE-DEFLECTION BARS.
- 6. PROVIDE ROTO-JET DRUM DIFFUSER WITH A THROW OF 40 FEET. TUTTLE & BAILEY MODEL MTRJ OR APPROVED EQUAL.

UNIT NO.	TVDE	CFM	EXTERNAL		HEATING COIL.					
	TYPE	CF M	STATIC PRESSURE	CAPACITY (BTU/HR)	GРM	MAX. PRESS. DROP(AIR)	MAX. PRESS. DROP(WATER)	TYPE	FILTER TYPE	
HV-1	SINGLE-ZONE, HORIZON- TAL DRAW THRU UNIT WITH FILTER BOX & INTEGRAL FACE & BYPASS HEATING COIL	3100	1 <sup>1</sup> / <sub>2</sub> " H 0 2	260,000	26	.50″ H <sub>2</sub> 0	10 FT. H <sub>2</sub> 0	VERTICAL TUBE, INTEGRAL FACE & BYPASS	2" REPLACEAB MEDIA	

\* ENT. WTR. TEMP.=200°F, LVG. WTR. TEMP.=180°F; & MAXIMUM COIL FACE VELOCITY = 600 FPM.

	HW BOILER SCHEDULE											
UNIT NO.	GROSS OUTPUT BTU/HR	GPM	ENT. H <sub>2</sub> 0	LVG. H <sub>2</sub> 0	FUEL	REMARKS						
B-1	830,000	83	180°F	200°F	#2 FUEL OIL	PROVIDE BOILER WITH FORCED- DRAFT FUEL OIL FIRED BURNER LOW-HIGH-OFF FIRING RATE & ELECTRONIC SPARK IGNITION.						

	HW PUMP SCHEDULE										
UNIT NO.	GPM	HD. (FT. H <sub>2</sub> 0)	USE	TYPE	FLUID	MIN. EFFY.					
P-1	83	35	BLDG. HW PUMP	BASE-MOUNTED CENTRIFUGAL	200°F HOT WATER	60%					

	AIR COOLED CONDENSING UNIT SCHEDULE										
UN	NIT	SERVICE	CAPACITY (BTU/HR)	AMBIENT TEMP.	CONDENSING TEMP.	REMARKS					
ACC	CU−1	BCU-1	36,900	95°F	120°F	CONDENSING UNIT CAPACITY TO BE MATCHED WITH BCU-1 DX COIL					

\* UNIT TO HAVE A MINIMUM EER= 9.0

	\$\$ - THINK VALUE ENGINEERING - \$\$									
Revisions										
Symbol	Descriptions	Date	Approved							
	U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS OMAHA, NEBRASKA									

signed by:	SITE NAME			SITE	LOCATION
R.R.T.	OMAHA DIS	STRICT	DESIGN	GUIDE	
awn by:					
S.L.M.	MECHANIC	CAL	SCHE	DULE	S
ecked by:					
J.J.P.					
viewed by:	Plot Scale Ratio: 1:12		Date:		Sheet
K.A.H.	Design File: STD07: oddgm50	1.dgn	JUNE	2002	reference number:
bmitted by:	Spec. No.: DACA 45	Drawing	g Code:		
ef: MECH.FAC. Section	Contract No.: DACA 45		X		M5.1

BLOWER-COIL UNIT SCHEDULE													
UNIT NO.	TYPE	СҒМ	OUTSIDE AIR	E EXTERNAL STATIC PRESSURE	COOLING COIL					HI	EATING COIL	FILTER TYPE	
			CFM		TYPE	CAPACITY (BTU/HR)	ENT. AIR	LVG. AIR	MAX.FACE VELOCITY	CAPACITY	TYPE	- FILTER TIPE	
BCU-1	HORIZONTAL UNIT WITH FILTER SECTION, DX COOLING COIL & ELECTRIC HEATING COIL	740	360	0.8" H <sub>2</sub> 0	DIRECT EXPANSION	29,500	83.5°F D.B. 64.2°F W.B.	55.0°F D.B. 54.0°F W.B.	580 FPM	14 KW	ELECTRIC	2" REPLACEABLE MEDIA	

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